FIG. 1

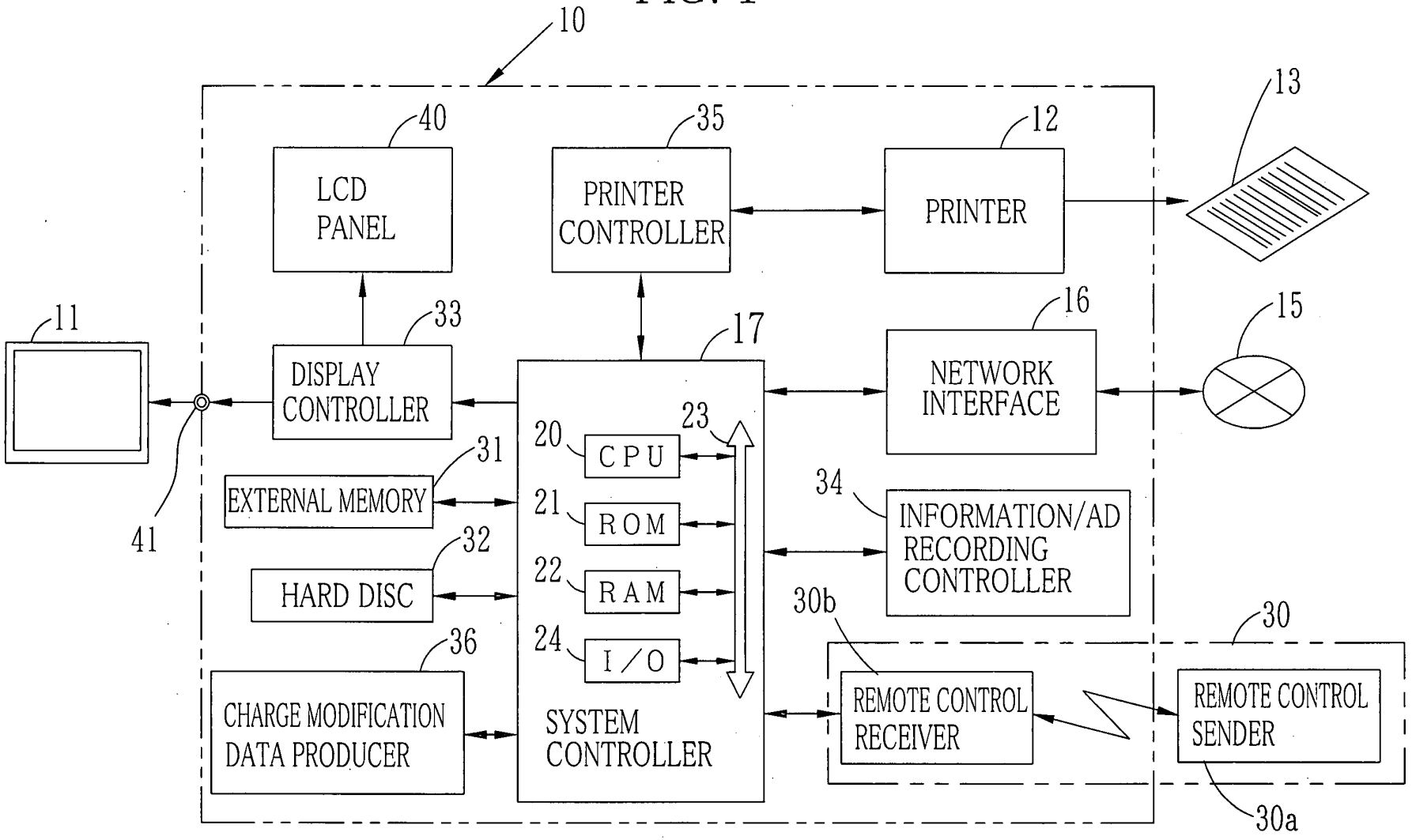

10
LCD PANEL
40
PRINTER CONTROLLER
35
PRINTER
12
13
11
DISPLAY CONTROLLER
33
17
NETWORK INTERFACE
16
15
20
CPU
23
31
EXTERNAL MEMORY
21
ROM
34
INFORMATION/AD RECORDING CONTROLLER
41
32
HARD DISC
22
RAM
30b
30
24
I/O
36
CHARGE MODIFICATION DATA PRODUCER
SYSTEM CONTROLLER
REMOTE CONTROL RECEIVER
REMOTE CONTROL SENDER
30a

FIG. 2

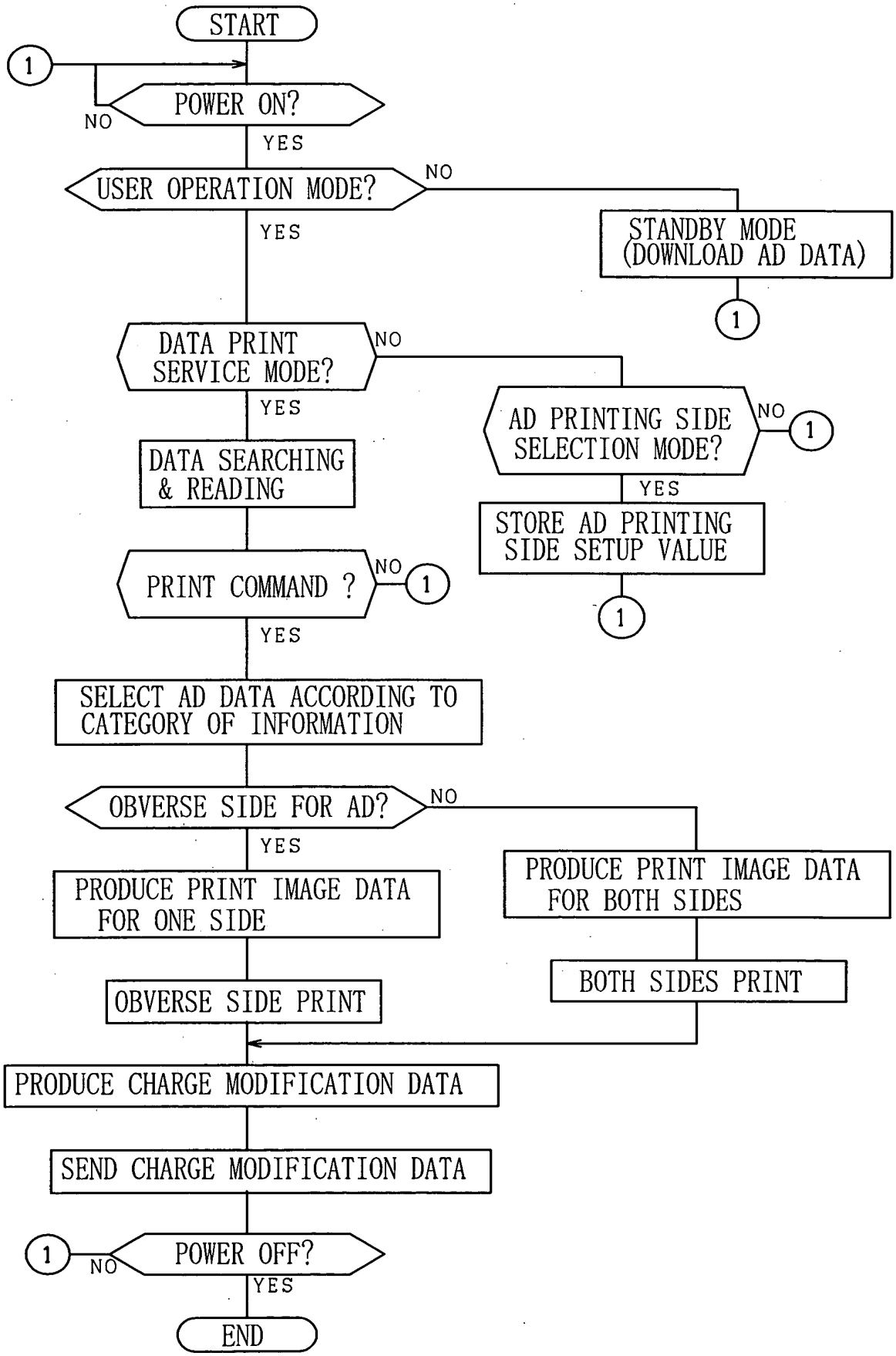

START
1
POWER ON?
NO
YES
USER OPERATION MODE?
NO
YES
STANDBY MODE (DOWNLOAD AD DATA)
1
DATA PRINT SERVICE MODE?
NO
YES
AD PRINTING SIDE SELECTION MODE?
NO
1
YES
STORE AD PRINTING SIDE SETUP VALUE
1
DATA SEARCHING & READING
PRINT COMMAND ?
NO
1
YES
SELECT AD DATA ACCORDING TO CATEGORY OF INFORMATION
OBVERSE SIDE FOR AD?
NO
YES
PRODUCE PRINT IMAGE DATA FOR ONE SIDE
PRODUCE PRINT IMAGE DATA FOR BOTH SIDES
BOTH SIDES PRINT
OBVERSE SIDE PRINT
PRODUCE CHARGE MODIFICATION DATA
SEND CHARGE MODIFICATION DATA
1
POWER OFF?
NO
YES
END

FIG. 3A

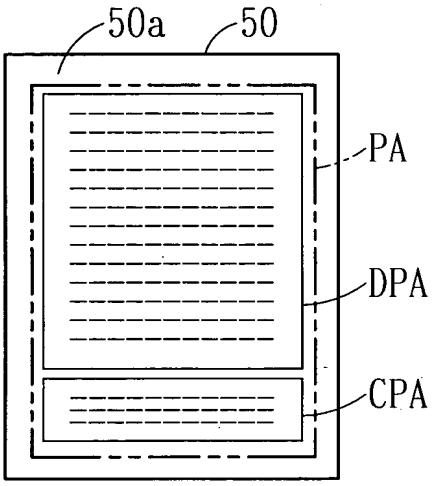


FIG. 3B

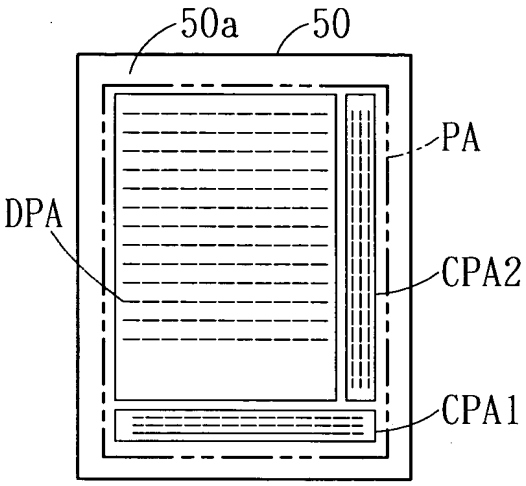


FIG. 3C

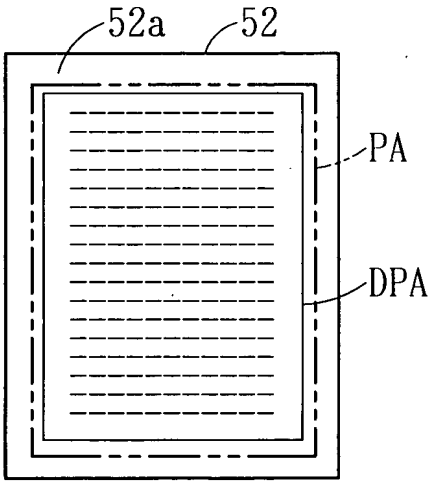


FIG. 3D

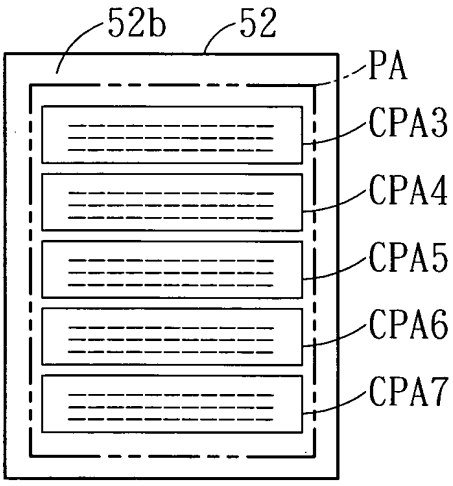


FIG. 4

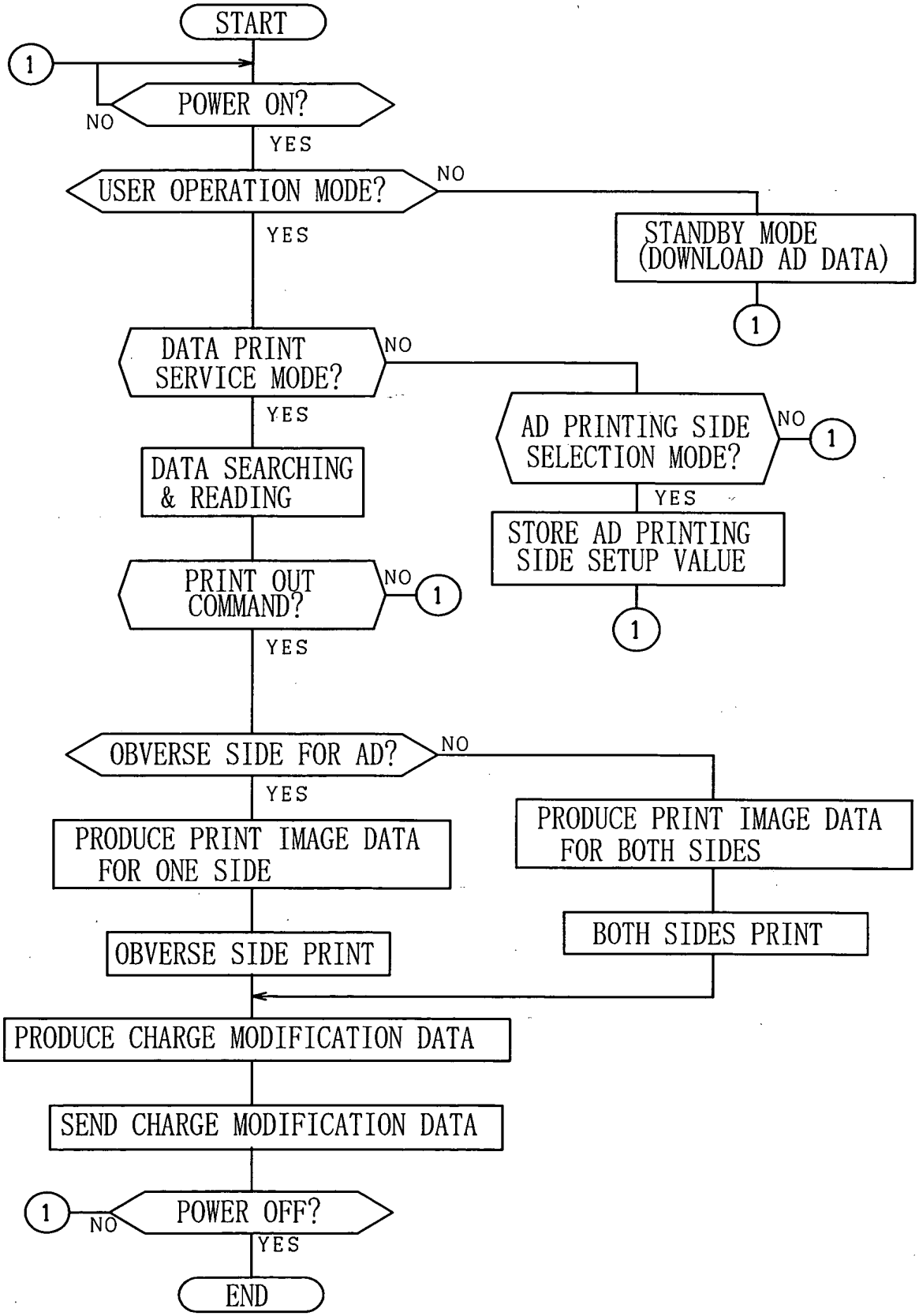

START
1
POWER ON?
NO
YES
USER OPERATION MODE?
NO
YES
STANDBY MODE (DOWNLOAD AD DATA)
1
DATA PRINT SERVICE MODE?
NO
YES
AD PRINTING SIDE SELECTION MODE?
NO
1
YES
STORE AD PRINTING SIDE SETUP VALUE
1
DATA SEARCHING & READING
PRINT OUT COMMAND?
NO
1
YES
OBVERSE SIDE FOR AD?
NO
YES
PRODUCE PRINT IMAGE DATA FOR ONE SIDE
PRODUCE PRINT IMAGE DATA FOR BOTH SIDES
BOTH SIDES PRINT
OBVERSE SIDE PRINT
PRODUCE CHARGE MODIFICATION DATA
SEND CHARGE MODIFICATION DATA
1
POWER OFF?
NO
YES
END

FIG. 5

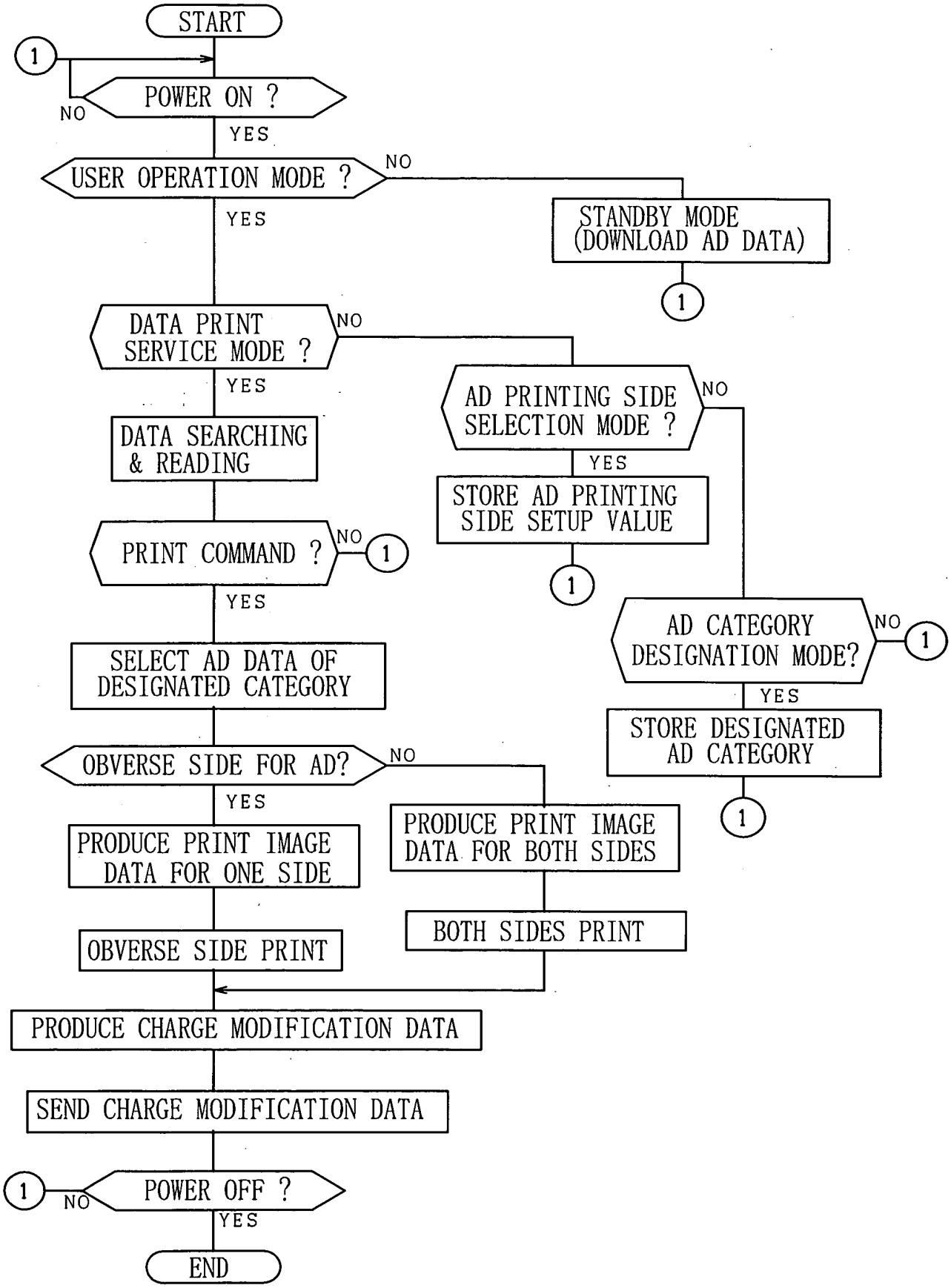
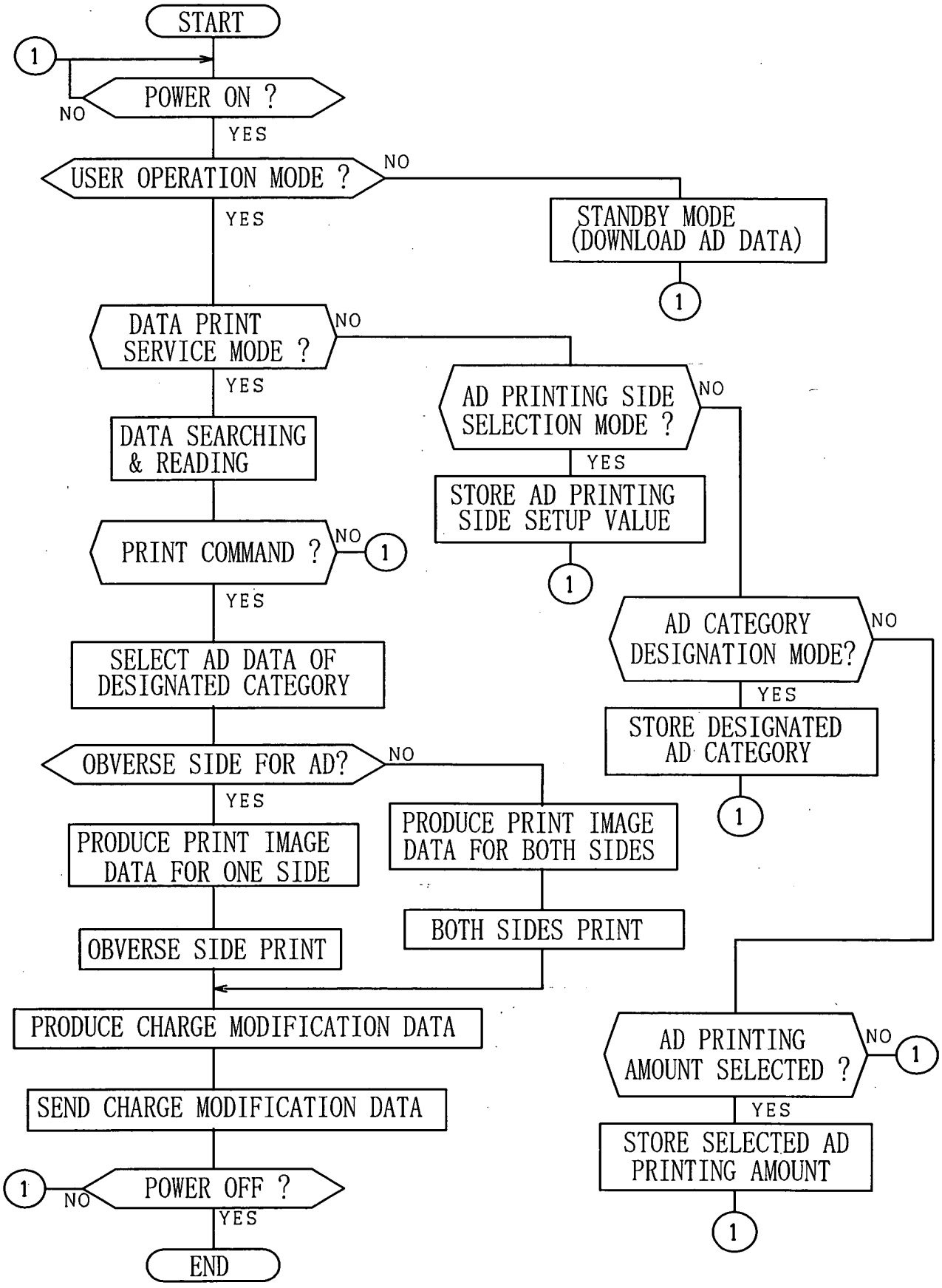

START
1
POWER ON ?
NO
YES
USER OPERATION MODE ?
NO
YES
STANDBY MODE (DOWNLOAD AD DATA)
1
DATA PRINT SERVICE MODE ?
NO
YES
DATA SEARCHING & READING
AD PRINTING SIDE SELECTION MODE ?
NO
YES
STORE AD PRINTING SIDE SETUP VALUE
1
PRINT COMMAND ?
NO
1
YES
AD CATEGORY DESIGNATION MODE?
NO
1
YES
STORE DESIGNATED AD CATEGORY
1
SELECT AD DATA OF DESIGNATED CATEGORY
OBVERSE SIDE FOR AD?
NO
YES
PRODUCE PRINT IMAGE DATA FOR ONE SIDE
PRODUCE PRINT IMAGE DATA FOR BOTH SIDES
OBVERSE SIDE PRINT
BOTH SIDES PRINT
PRODUCE CHARGE MODIFICATION DATA
SEND CHARGE MODIFICATION DATA
1
POWER OFF ?
NO
YES
END

FIG. 6


START
POWER ON ?
NO
YES
USER OPERATION MODE ?
NO
YES
STANDBY MODE (DOWNLOAD AD DATA)
DATA PRINT SERVICE MODE ?
NO
YES
AD PRINTING SIDE SELECTION MODE ?
NO
YES
STORE AD PRINTING SIDE SETUP VALUE
DATA SEARCHING & READING
PRINT COMMAND ?
NO
YES
AD CATEGORY DESIGNATION MODE?
NO
YES
STORE DESIGNATED AD CATEGORY
SELECT AD DATA OF DESIGNATED CATEGORY
OBVERSE SIDE FOR AD?
NO
YES
PRODUCE PRINT IMAGE DATA FOR ONE SIDE
PRODUCE PRINT IMAGE DATA FOR BOTH SIDES
OBVERSE SIDE PRINT
BOTH SIDES PRINT
PRODUCE CHARGE MODIFICATION DATA
AD PRINTING AMOUNT SELECTED ?
NO
YES
STORE SELECTED AD PRINTING AMOUNT
SEND CHARGE MODIFICATION DATA
POWER OFF ?
NO
YES
END